WHAT IS CLAIMED IS:

- 1. A deep rolling tool apparatus comprising:
- a housing having at least one recessed region defining a seat;
- a tool positionable in said seat;
- a detent arranged in said housing adapted to engage with said tool, said detent comprising
- a locking member movable between a retracted position and an extended position at

which said member extends into said seat;

wherein a positioning of the tool in the seat engages the locking

member with the tool, removably securing the same in the housing.

- 2. The apparatus of claim 1 comprising a biasing member for biasing said locking member toward an extended position.
- 3. The apparatus of claim 1 wherein said tool compressing a rolling element or a positioning member.
- 4. The apparatus of claim 2 wherein said tool comprises an extension adapted to extend into said recessed region, a partial insertion of said extension therein initially urges said locking member into said housing, whereafter a complete insertion of the extension allows said locking member to extend into said seat and secure the tool therein.
 - 5. The apparatus of claim 4 wherein said locking member is a ball.

- 6. The apparatus of claim 5 comprising a circumferential groove on said extension, said groove adapted to engage with said ball when extended into said seat thereby securing the tool therein.
- 7. The apparatus of claim 1 comprising a threaded passage in said housing that threadedly receives said detent.
 - 8. The apparatus of claim 1 comprising:
 - a plurality of seats in said housing;
 - a plurality of tools supported in said seats; and
- a plurality of detents, each engageable with one of said plurality of tools to secure the same in said housing.
 - 9. The apparatus of claim 8 wherein each said detent comprises:
- a pin having first and second ends and a channel extending axially within from one end, said first end comprises a shaped recess for receipt of a tool;
 - a spring member positioned in said channel; and
- a ball reciprocable in said channel, said ball biased by said spring toward said second end and partially extensible past the same for engagement with a substantially complementary portion of one of said tools.
 - 10. The apparatus of claim 7 wherein said pin is externally threaded.

11. An apparatus for deep rolling of an elongate work piece comprising: a housing having a recessed region defining a seat;

a tool engageable in said seat, said tool comprising a rolling element;

a first locking member mounted in said housing and reciprocable between a retracted position and an extended position at which said member extends into said recessed region;

whereupon placing said tool in said seat engages said member with said tool, removably securing the same in said housing.

- 12. The apparatus of claim 11 comprising biasing means for biasing said locking member toward its extended position.
 - 13. The apparatus of claim 12 wherein said biasing means is a helical spring.
- 14. The apparatus of claim 11 wherein said first locking member comprises a pin slidable in said housing.
- 15. The apparatus of claim 11 wherein said recessed region is substantially complementary with said tool and adapted to support the same.
 - 16. The apparatus of claim 11 further comprising:

a positioning member having a body and a head adapted to engage with a workpiece supported in part by said tool; and

a second locking member in said housing adapted to engage with and removably secure said positioning member.

17. A deep rolling apparatus comprising:

an upper tool comprising a rolling element for engagement with a work piece;

a lower tool housing defining at least one seat;

a lower tool positionable in said seat, said lower tool comprising a rolling element;

a detent comprising a member moveable between a first position at which it locks said tool in said seat and a second position at which said tool is removable from said seat.

- 18. The apparatus of claim 17 wherein said detent is mounted in said housing and extensible into engagement with said tool.
- 19. The apparatus of claim 17 wherein said detent comprises a member mounted to said tool and extensible into said housing.
 - 20. The apparatus of claim 17 wherein said detent comprises a spring-biased ball.